

**Notice of Allowability**

Application No.

09/677,274

Examiner

Jungwon Chang

Applicant(s)

TUMMALA ET AL.

Art Unit

2154

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.


1. ☒ This communication is responsive to 12/14/2004.
2. ☒ The allowed claim(s) is/are 1-3,6-23 and 25-42 now renumbered as 1-39.
3. ☒ The drawings filed on 08 August 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

  
JOHN FOLLANSBEE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Scott Hemingway, Reg. No. 36,366 on February 9, 2005.

2. The application has been amended as follows:

In claims

Claim 1 (Currently Amended) The method of establishing a connection for a mobile node on a communication system having a home network for the mobile node and at least one foreign network comprising the steps of:

receiving a registration request message at a foreign network Authentication, Authorization, Accounting server;

transmitting a request to an Authentication, Authorization, Accounting broker server to obtain service level agreement information to establish a secure connection between the foreign and home networks;

receiving at the foreign network Authentication, Authorization, Accounting server a response transmitted from the Authentication, Authorization, Accounting broker server

containing service level agreement information stored on the Authentication, Authorization, Accounting broker server, wherein the response transmitted from the Authentication, Authorization, Accounting broker server contains the Internet Protocol address of the home network to which the request should be directly forwarded and one or more instances of a first value to indicate that one or more different host networks can be contacted.

Claim 2 (Currently Amended) The method of establishing a home network connection in Claim 1 further comprising the step of:

establishing a connection with an Authentication, Authorization, Accounting server on the home network based upon the information received from the Authentication, Authorization, Accounting broker server.

Claim 4 (Canceled)

Claim 5 (Canceled)

Claim 19 (Currently Amended) [[The method of establishing a home network connection in Claim 1 further comprising the step of:]] The method of establishing a connection for a mobile node on a communication system having a home network for the mobile node and at least one foreign network comprising the steps of:  
receiving a registration request message at a foreign network Authentication,

Authorization, Accounting server;

transmitting a request to an Authentication, Authorization, Accounting broker server to obtain service level agreement information to establish a secure connection between the foreign and home networks;

receiving at the foreign network Authentication, Authorization, Accounting server a response transmitted from the Authentication, Authorization, Accounting broker server containing service level agreement information stored on the Authentication, Authorization, Accounting broker server, wherein the response transmitted from the Authentication, Authorization, Accounting broker server contains the Internet Protocol address of the home network to which the request should be directly forwarded, and one or more instances of a first value to indicate that one or more different host networks can be contacted; and

contacting a second Authentication, Authorization, Accounting broker server after a rejection response is received from the Authentication, Authorization, Accounting broker server.

Claim 22 (Currently Amended) A system for establishing a home network connection of a mobile node on a foreign network in a wireless communications network comprising:

a home network having a home agent coupled to a home Authentication, Authorization, Accounting server;

a foreign network having a foreign agent coupled to a foreign Authentication, Authorization, Accounting server;

a mobile node transmitting a request to the foreign Authentication, Authorization, Accounting server in a request to establish a secure connection between the mobile node and the home network; [[and]]

an Authentication, Authorization, Accounting broker server coupled to the foreign Authentication, Authorization, Accounting server transmitting a request to the Authentication, Authorization, Accounting broker server to determine the location of the home network and security association information for establishing the secure connection between the mobile node and the home network according to a security protocol specified in the Authentication, Authorization, Accounting broker server; and

the foreign Authentication, Authorization, Accounting server receives a response from the Authentication, Authorization, Accounting broker server with the Internet Protocol address of the home network to which the request should be directly forwarded and one or more instances of a first value to indicate that one or more different host networks can be contacted.

Claim 24 (Canceled)

Claim 42 (Currently Amended) A method for establishing a connection for a mobile node on a communication system having a home network for the mobile node and at least one foreign network comparing the steps of:

receiving a registration request message at a foreign Authentication, Authorization, Accounting server;

transmitting a request to an Authentication, Authorization, Accounting broker server to obtain service level agreement information to establish a secure connection between the foreign and home network;

receiving at the foreign network Authentication, Authorization, Accounting server a response from the Authentication, Authorization, Accounting broker server containing service level agreement information wherein the response transmitted from Authentication, Authorization, Accounting broker server contains the Internet Protocol address of the home network to which the request should be directly forwarded and one or more instances of a first value to indicate that one or more different host networks can be contacted; and

establishing a secure connection with an Authentication, Authorization, Accounting server on the home network based upon the service level agreement information received from the Authentication, Authorization, Accounting broker server to encrypt information packets transmitted between the home network and the mobile node.

### **REASONS FOR ALLOWANCE**

3. The following is an examiner's statement of reasons for allowance: The claimed invention provides the novel use of Authentication, Authorization, and Account broker server which has a responsibility of establishing and maintaining multiple service level agreements among multiple service providers and various networks, results in improved dynamic roaming among different networks, which was not taught or suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jungwon Chang whose telephone number is 571-272-3960. The examiner can normally be reached on 9:30-6:00 (Monday-Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for


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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JWC  
February 16, 2005

  
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